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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

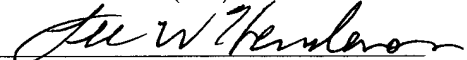
Applicant : Francis X. Canning
Appl. No. : 10/619,796
Filed : July 15, 2003
For : SPARSE AND EFFICIENT
BLOCK FACTORIZATION FOR
INTERACTION DATA
Examiner : Heng Der Day
Group Art Unit : 2128

CERTIFICATE OF MAILING

I hereby certify that this correspondence and all marked attachments are being deposited with the United States Postal Service as Express Mail EV 814001475 US in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on

December 21, 2006

(Date)



Lee W. Henderson Ph.D., Reg. No. 41,830

AMENDMENTS AND RESPONSE TO OFFICE ACTION MAILED JULY 3, 2006

Mail Stop Amendment

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

In response to the Office Action mailed July 3, 2006, Applicant respectfully submit the following amendments and comments in connection with the above-captioned application.

Amendments to the Specification begin on page 2 of this paper.

Amendments to the Claims are reflected in the listing of claims which begins on page 4 of this paper.

Amendments to the Drawings begin on page 9 of this paper.

Remarks/Arguments begin on page 10 of this paper.

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01 FC:2201 300.00 DA
02 FC:2202 250.00 DA